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Aires; Agricultural Experiment Stations, Amherst, Mass., College Park, Md., Experiment, Ga., Fort Collins, Colo., Lincoln, Neb., Corvallis, Oregon, Lawrence, Wyo.

The following deaths were announced :

M. Victor Duruy, Paris, France.

Sig. Giovanni Battista Rossi, Rome, Italy.

A portrait of the late Dr. John Le Conte was presented on behalf of the donor, Mrs. Le Conte, by Dr. Horn, who referred to the services to science rendered by Dr. Le Conte. Dr. J. C. Morris followed with a tribute to the memory of Dr. Le Conte's personal and official career, and moved a vote of thanks to Mrs. Le Conte for the gift of the portrait. Carried.

Mr. Benjamin Smith Lyman read a paper entitled "Folds and Faults in Pennsylvania Anthracite Beds."

On account of the large number of engravings required by the paper, on motion of Dr. Brinton it was referred to a special committee of three, to be appointed by the Chair.

The following paper was read by title by Prof. E. D. Cope : "The Structure and Origin of the Zygomatic Arch in the Mammalia," by Daniel Slade, Mus. Comp. Zoölogy.

Dr. Cope presented a paper, for the Proceedings, illustrated by a number of specimens, on some "Extinct Cetacea."

Pending nominations 1306, 1307, 1308, 1309 were read.

And the Society was adjourned by the presiding member.

Stated Meeting, April 5, 1895.

President, Mr. FRALEY, in the Chair.

Mr. Henry C. Mercer, a newly-elected member, was presented to the Chair and took his seat.

Correspondence was submitted as follows :

Acknowledgments of election to membership were received from :

R. T. Glazebrook, F.R.S., Cambridge, Eng.

C. A. M. Fennell, Litt.D., Cambridge, Eng.

Prince Roland Bonaparte, Paris, France.

E. A. Wallis Budge, Litt. D., London, Eng.

Sir George Grove, C.B., London, Eng.

William Huggins, D.C.L., London, Eng.

Rev. James Legge, LL.D., Oxford, Eng.

Rev. Isaac Taylor, LL.D., York, Eng.

Prof. W. Wundt, Leipzig, Germany.

Dr. Ernst Curtius, Berlin, Prussia.

Mr. Joseph Wilcox, Philadelphia.

Mr. Henry C. Mercer, Doylestown, Pa.

Prof. Gabriel de Mortellet, St. Germain-en-Laye, France.

Letters of envoy were received from the Government Astronomer, Madras, India; K. K. Astronomisch-meteorologische Observatorium, Triest, Austria; Université Royale, Lund, Sweden; Bureau des Longitudes, Paris, France; R. Academia de Ciencias y Artes, Barcelona, Spain; Meteorological Office, British Association for the Advancement of Science, London, Eng.; Royal Irish Academy, Dublin; Oneida Historical Society, Utica, N. Y.; Dirección General de Estadística de la República Mexicana, Mexico.

Letters of acknowledgment were received from the Institut Egyptien, Cairo (142, 144, 145); R. Zoölogical Society, Amsterdam, Netherlands (145); Royal Library, The Hague, Holland (145); Colonial Museum, Musée Teyler, Harlem, Holland (145); Friesch Genootschap van Geschied Oudheid en Taalkunde, Leewarden, Holland (145); Académie R. des Sciences, des Lettres, etc., Bruxelles, Belgique (144, 145); Prof. Peter R. v. Tunner, Leoben, Styria (144); Naturforschende Gesellschaft, Bamberg, Bavaria (145); Naturhistorische Gesellschaft, Hannover, Prussia (142, 144, 145); Prof. Carl Vogt, Geneva, Switzerland (145); Accademia R. delle Scienze, Torino, Italia (144); Philosophical Society, Cambridge, Eng. (145); Public Library, Boston, Mass. (143, 146); Profs. William W. Goodwin, Alpheus Hyatt, C. R. Lanman, Cambridge, Mass. (143); Rev. Edward E. Hale, Roxbury, Mass. (146); Marine Biological Laboratory, Woods Holl, Mass. (143, 146); R. I. Agricultural Experiment Station, Kingston (143, 146);

Prof. Levi W. Russell, Providence, R.I. (143); *American Journal of Science* (143), Prof. H. A. Newton, New Haven, Conn. (142, 144, 145); Prof. B. G. Wilder, Ithaca, N. Y. (143, 146); N. Y. Academy of Medicine (141, 145), Editor of the *Popular Science Monthly* (143), Hon. Charles P. Daly (143, 146), Prof. Henry F. Osborn, New York, N.Y. (143); Oneida Historical Society, General Charles W. Darling, Utica, N.Y. (143); Profs. William Libbey, Jr. (143), C. A. Young, Princeton, N. J. (143, 146); Dr. E. D. Warfield, Easton, Pa. (143); Mr. S. M. Sener, Lancaster, Pa. (143); Profs. Henry F. Bitner, H. Justin Roddy, Millersville, Pa. (143); Profs. Andrew A. Blair (142, 144, 145), J. Solis Cohen (143), Drs. Persifor Frazer (146), John Marshall (146), D. K. Tuttle (143), Charles Stewart Wurts, (143, 146), Messrs. Arthur Biddle (143), Arthur E. Brown (143, 146), Robert Patterson Field (143, 146), Joseph C. Fraley (143), William A. Ingham (143, 146), Thomas Meehan (143), Robert Patterson (143), L. A. Scott (143, 146), Joseph Wilcox Philadelphia (143-146); Patent Office Library Washington, D. C. (143); Captain William N. Casey, U. S. A., Norfolk, Va. (143); Academy of Science, St. Louis, Mo. (146); College of Agriculture and Mechanic Arts, Mesilla Park, N. M. (143); Museo Nacional (144), Société Scientifique du Chili, Santiago de Chile (142).

Letters of acknowledgment (143 and 146) were received from the Smithsonian Institution (6 cases, 446 packages), Anthropological Society, Bureau of Ethnology, Library Surgeon-General's Office, U. S. Naval Observatory, U. S. Coast and Geodetic Survey, U. S. Geological Survey, U. S. Department of Agriculture, Rt. Rev. John J. Keane, Profs. S. F. Emmons, C. V. Riley, Charles A. Schott, Dr. W. J. Hoffman, Mr. Lester F. Ward, Washington, D.C.; Mr. Jedediah Hotchkiss, Staunton, Va.; University of Virginia, Va.; Prof. J. W. Mallet, University of Virginia, Va.; Hon. Lyon G. Tyler, Williamsburg, Va.; West Virginia University, Morgantown; Agricultural Experiment Station, Raleigh, N.C.; Georgia Historical Society, Savannah; Agricultural Experiment Station, Knoxville, Tenn.; Experiment Station Library, Auburn, Ala.;

University of Alabama, University P.O.; University of California, Berkeley; Lick Observatory, Mt. Hamilton, Cal.; California Academy of Sciences, San Francisco; Texas Academy of Science, Austin; State Agricultural College, Michigan; Geological Survey of Missouri, Jefferson City; Prof. E. W. Claypole, Akron, O.; Editors of the *Journal of Comparative Neurology*, Granville, O.; Society of Natural History, Cincinnati Observatory, Hon. J. D. Cox, Cincinnati, O.; Oberlin College, Oberlin, O.; Athenæum Library, Columbia, Tenn; Academy of Sciences, St. Louis, Mo.; Prof. J. L. Campbell, Crawfordsville, Ind.; Indiana Engineers' Society, Remington; Field Columbian Museum, Newberry Library, Chicago, Ill.; Iowa Experiment Station, Ames; Iowa Masonic Library, Cedar Rapids; Academy of Natural Sciences, Davenport, Ia.; State Historical Society, Iowa City, Ia.; American Archæological and Asiatic Association, Nevada, Ia.; State Historical Society of Wisconsin, Academy of Sciences, Arts and Letters, Madison, Wis.; Agricultural Experiment Station, Manhattan, Kans.; Kansas Academy of Science, Topeka; Agricultural Experiment Station, Corvallis, Oregon; Colorado Scientific Society, Denver; Agricultural Experiment Station, Fort Collins, Col.; Nebraska State Historical Society, Lincoln; Academy of Science, Tacoma, Wash.; University of Wyoming, Laramie; Dakota Agricultural College, Brookings.

Accessions to the Library were reported from the Naturforscher-Verein, Riga, Russia; K. D. Geografiske Selskab, Copenhagen; Université Royale, Lund, Sweden; Société Royale de Géographie, Antwerp, Belgium; Hungarian Nat. Museum, Budapest; Académie des Sciences, Cracow, Austria; Osservatorio Astronomico-Meteorologico, Trieste, Austria; K. K. Naturhistorische Hofmuseum, Vienna, Austria; Akademie der Wissenschaften, Verein zur Beförderung des Gartenbaues, Berlin, Prussia; K. Sächsische Gesellschaft der Wissenschaften, Leipzig; Naturhistorische Verein der Preussischen Rheinlande, etc., Bonn, Prussia; Württembergische Kommission für Landesgeschichte, Stuttgart; Prof. M. E. Renevier, Lausanne, Switzerland; R. Academia de Ciencias, R. Acade-

mia de la Historia, Madrid, Spain ; Muséum d'Histoire Naturelle, Paris, France ; Mr. James L. Bowes, Liverpool, Eng. ; British Association for the Advancement of Science, London, Eng. ; Geographical Society, Manchester, Eng. ; R. I. Historical Society, Providence ; Academy of Sciences, Historical Society, New York, N.Y. ; Rev. Joseph H. Dulles, Princeton, N.J. ; Messrs. Henry Phillips, Jr., Julius F. Sachse, Philadelphia ; Light House Board, Smithsonian Institution, Mr. F. W. Hodge, Washington, D.C. ; Editors of the *Journal of Comparative Neurology*, Granville, O. ; Agricultural Experiment Stations, Durham, N. H., Lexington, Ky., Ames, Ia. ; Sociedad Central de Profesores del Estado, Puebla, Mex. ; Observatorio Meteorologico Central, Xalapa, Mex. ; Institute of Jamaica, Kingston ; Direccion Général de Estadistica, Guatemala, C. A.

A photograph for the Society's Album was received from Prof. Peter R. v. Tunner, Leoben, Austria.

The following deaths were announced :

Prof. Henry Coppée, Bethlehem, Pa. Born October 13, 1821 ; died March 21, 1895.

Hon. Richard Vaux, Philadelphia. Born December 19, 1816 ; died March 22, 1895.

Dr. W. S. W. Ruschenberger, Philadelphia. Born September 4, 1807 ; died March 24, 1895.

Prof. John A. Ryder, Philadelphia. Born 1852 ; died March 26, 1895.

Prof. James E. Oliver, Ithaca, N. Y. Born July 27, 1829 ; died March 27, 1895.

Dr. Brinton moved that the President, at his leisure, appoint members to prepare suitable obituary notices of the deceased.

Prof. Cope, by consent, paid a tribute to the scientific standing of the late Prof. Ryder, and the exceptional value of his investigation into ontogeny.

The President appointed Prof. Cope to prepare the obituary notice of the late Prof. Ryder. Prof. Cope accepted the appointment.

Prof. Cope read his paper on "Crania of Fossil Whalebone Whales," as announced.

Mr. Du Bois read a paper on the "Priority of the Manufacture of Extremely Thin Gold Leaf by Electrical Processes."

Remarks, corroborative of the tenor of the paper, were made by Mr. Joseph Fraley.

The Committee upon Mr. Lyman's Paper reported and was continued.

Pending nominations 1306, 1307, 1308, 1309, and new nominations 1310, 1311, 1312, were read.

And the Society was adjourned by the President.

Stated Meeting, April 19, 1895.

President, Mr. FRALEY, in the Chair.

Mr. Richard S. Hunter, a newly elected member, was presented to the Chair, and took his seat.

Correspondence was submitted as follows:

A circular letter from the Geographical Society of Toulouse, France, requesting that the Society examine into the method of applying the Decimal System parallel and simultaneously to the measurement of angles and time.

A letter was read from Philip P. Calvert, Secretary of the Ryder Memorial Meeting, requesting the Society to appoint a representative to the Committee of Publication of that meeting.

On motion, the President was requested to make the appointment.

Prof. Cope was subsequently appointed.

Letters were read from Mr. Dalton Dorr, Superintendent of the Pennsylvania Museum of Industrial Art, and Mr. F. D. Langenheim, Curator of the Numismatic and Antiquarian Society, requesting the Society to take the receipt of the former institution for the Society's coins and medals deposited